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FROM: Gwilym J. O. Attwell

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OF PAGES (INCLUDING COVER): 22

FILE NAME: PHOE0001-100

DATE: February 11, 2005

FILE #: 140707

| RECIPIENT(S) | PHONE | FAX |
|---|--------------|--------------|
| Examiner Emily Le U.S. PATENT AND TRADEMARK OFFICE GROUP ART UNIT 1648 | 703-306-3407 | 703.872.9306 |

MESSAGE: OFFICIAL FAX!

Serial No.: 10/674,666 Filing Date: September 29, 2003

Attachments: Transmittal form (1 page)
Fee Transmittal in dup. (2 pages)
Amendment and Response (19 pages)

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PTO/SB/21 (09-04)

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| | | | |
|--|----------------------|------------------------|--------------|
| TRANSMITTAL FORM | Application Number | 10/674,666 | |
| | Filing Date | September 29, 2003 | |
| | First Named Inventor | Mike Clark | |
| | Art Unit | 1648 | |
| | Examiner Name | Emily M. Le | |
| (to be used for all correspondence after initial filing) | | Attorney Docket Number | PHOE0001-100 |
| Total Number of Pages in This Submission | | 22 | |

| ENCLOSURES (check all that apply) | | |
|---|--|--|
| <input checked="" type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input checked="" type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD | <input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input type="checkbox"/> Other Enclosure(s) (please identify below): |
| Remarks | | |

| SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT | | | |
|--|----------------------|----------|--------|
| Firm | Cozen O' Connor | | |
| Signature | | | |
| Printed Name | Gwilym J. O. Attwell | | |
| Date | February 11, 2005 | Reg. No. | 45,449 |

| CERTIFICATE OF TRANSMISSION/MAILING | | | |
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| I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below. | | | |
| Signature | | | |
| Typed or printed name | Gwilym J. O. Attwell | Date | February 11, 2005 |

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Approved for use through 07/31/2006, OMB 0651-0032
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Effective on 12/09/2004.
Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

FEE TRANSMITTAL for FY 2005

☒ Applicant claims small entity status. See 37 CFR 1.27

| Complete if Known | |
|----------------------|--------------------|
| Application Number | 10/874,666 |
| Filing Date | September 29, 2003 |
| First Named Inventor | Mike Clark |
| Examiner Name | Emily M. Le |
| Art Unit | 1648 |
| Attorney Docket No. | PHOE0001-100 |

TOTAL AMOUNT OF PAYMENT (\$) 0

METHOD OF PAYMENT (check all that apply)

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- For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)
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FEE CALCULATION

1. BASIC FILING, SEARCH, AND EXAMINATION FEES

| Application Type | FILING FEES | | SEARCH FEES | | EXAMINATION FEES | | Fees Paid (\$) |
|------------------|-------------|----------------------|-------------|----------------------|------------------|----------------------|----------------|
| | Fee (\$) | Small Entity Fee(\$) | Fee(\$) | Small Entity Fee(\$) | Fee(\$) | Small Entity Fee(\$) | |
| Utility | 300 | 150 | 500 | 250 | 200 | 100 | _____ |
| Design | 200 | 100 | 100 | 50 | 130 | 65 | _____ |
| Plant | 200 | 100 | 300 | 150 | 160 | 80 | _____ |
| Reissue | 300 | 150 | 500 | 250 | 600 | 300 | _____ |
| Provisional | 200 | 100 | 0 | 0 | 0 | 0 | _____ |

2. EXCESS CLAIM FEES

Fee Description

Each claim over 20 (including Reissues)
Each independent claim over 3 (including Reissues)
Multiple dependent claims

| Fee (\$) | Small Entity Fee (\$) |
|----------|-----------------------|
| 50 | 25 |
| 200 | 100 |
| 360 | 180 |

Total Claims: 45 Extra Claims: -60 or HP= 0 x 0 = 0 Fee Paid (\$): 0

HP = highest number of total claims paid for, if greater than 20.

Indep. Claims: 4 Extra Claims: -11 or HP= 0 x 0 = 0 Fee Paid (\$): 0

HP = highest number of independent claims paid for, if greater than 3.

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets: _____ Extra Sheets: _____ Number of each additional 50 or fraction thereof: _____ Fee (\$): _____ Fee Paid (\$): _____

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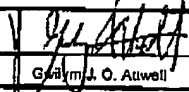
4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): _____

Fees Paid (\$)

SUBMITTED BY

| | | |
|--|---|-------------------------|
| Signature:  | Registration No. (Attorney/Agent): 45,449 | Telephone: 215-665-8904 |
| Name (Print/Type): Gregory J. O. Atwell | Date: February 11, 2005 | |

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Docket No.: PHOE0001-100

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CENTRAL FAX CENTER****FEB 11 2005****PATENT****IN THE UNITED STATES PATENT AND TRADEMARK OFFICE****In re application of: Clark****Serial No.: 10/674,666****Group Art Unit: 1648****Filed: September 29, 2003****Examiner: Emily M. Le****Title: METHODS FOR INHIBITING VIRAL REPLICATION IN VIVO****Certificate of Facsimile Transmission**

I hereby certify that this paper is being facsimile transmitted to the Patent and Trademark Office to facsimile number (703) 872-9306 on the date shown below.

On February 11, 2005


Gwilym John Owen Attwell, Reg. No. 45,449

**Mail Stop: Amendment
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P.O. Box 1450
Alexandria, VA 22313-1450**

Dear Sir:**AMENDMENT AND RESPONSE**

This paper is filed in response to the Office Action dated December 2, 2004. In response to the Office Action, please amend the above-referenced application as follows and consider the following remarks:

Amendments to the Specification begin on page 2 of this paper.

Amendments to the Claims are reflected in the listing of the claims which begins on page 3 of this paper.

Remarks/Response begin on page 12 of this paper.